

Claims

1. A data recording device characterized by comprising:
 - an interface part for receiving digital data;
 - a disc which can record said digital data;
 - a block generation part for identifying data blocks in the frame unit from among said received digital data and for generating, at least, the first audio block and the second audio block from among said data blocks; and
 - a data recording and reproduction control part for controlling said first audio block and said second audio block to be recorded respectively from the leading address of a recording segment formed on said disc.
2. A data recording device characterized by comprising:
 - an interface part for receiving digital data;
 - a disc which can record said digital data;
 - a block generation part for identifying data blocks in the frame unit from among said received digital data and for generating, at least, a first video block and a second video block from among said data blocks; and
 - a data recording and reproduction control part for controlling said first video block and said second video block to be recorded respectively from the leading address of a recording segment formed on said disc.
3. A data recording device according to Claims 1 or 2 characterized in that said block generation part determines

data among said data blocks forming, at least, one block among said first audio block, said second audio block, said first video block or said second video block in accordance with a signal format.

4. A data recording device characterized by comprising:

an interface part for receiving digital data;
a disc which can record said digital data;
a block generation part which identifies data blocks in the frame unit from among said received digital data, generates, at least, a first audio block and a second audio block from among said data blocks and generates a first multi-audio block comprising plural said first audio blocks and a second multi-audio block comprising plural said second audio blocks;
and

a data recording and reproduction control part for controlling said first multi-audio blocks and said second multi-audio blocks to be recorded respectively from the leading address of a recording segment formed on the disc.

5. A data recording device according to Claim 4 characterized in that said first multi-audio block and said second multi-audio block are formed of audio blocks for 16 frames respectively.

6. A data recording device according to Claims 1 or 4 characterized in that said disc device is a hard disc drive.

7. A data recording device according to Claims 1 or 4

characterized in that said digital data are digital data of a DV format which include the audio signals of plural channels and in that said first audio block and said second audio block comprise a pair of stereo audio signals respectively.

8. A data recording method characterized by comprising:

the step of receiving digital data;
the step of identifying data blocks in the frame unit from among said received digital data and of generating, at least, a first audio block and a second audio block from among said data blocks; and

the step of recording said first audio block and said second audio block respectively from the leading address of a recording segment formed on the disc.

9. A data recording method characterized by comprising:

the step of receiving digital data;
the step of identifying data blocks in the frame unit from among said received digital data and of generating, at least, a first video block and a second video block from among said data blocks; and

the step of recording said first video block and said second video block respectively from the leading address of a recording segment formed on the disc.

10. A data recording method characterized by comprising:

the step of receiving digital data;
the step of identifying data blocks in the frame unit from

among said received digital data, of generating, at least, a first audio block and a second audio block from among said data blocks and of generating a first multi-audio block comprising plural said first audio blocks and a second multi-audio block comprising plural said second audio blocks; and

the step of recording said first multi-audio block and said second multi-audio block respectively from the leading address of a recording segment formed on said disc.

11. A data recording method according to Claims 8 or 10 characterized in that said digital data are digital data of a DV format which include the audio signals of plural channels and in that said first audio block and said second audio block comprise a pair of stereo audio signals respectively.

12. A data recording device characterized by comprising:
a disc which can record and reproduce digital data; and
a buffer memory which records first digital data reproduced from said disc in the unit of a data block of a constant data length and which records received second digital data in correspondence with said data block,

wherein said second digital data is recorded in a memory region on said disc where a part of said first digital data in correspondence with said second digital data has been recorded.

13. A data recording device according to Claim 12 characterized in that said first digital data include a video signal or an audio signal and said second digital data are an audio signal

or a video signal.

14. A data recording device according to Claim 13 characterized in that said constant data length is N frame(s) (N is a positive integer, including 1).

15. A data recording device according to Claim 12 characterized by comprising:

a disc which can record and reproduce digital data; and
a buffer memory which records first digital data reproduced from said disc in the unit of a data block of a constant data length and which records received second digital data in correspondence with said data block,

wherein at least one signal among the video signals or the audio signals included in said first digital data and at least one signal among the video signals or the audio signals included in said second digital data are compared in, at least, format or encoding system, and in the case that the two are different the video signal or the audio signal included in said second digital data is converted into the signal which is of the same format or of the same encoding system as that of the video signal or the audio signal included in said first digital data, and the converted video signal or the converted audio signal can be recorded on the disc.

16. A data recording method characterized by comprising:

the step of reproducing first digital data from a disc and of recording said first digital data in a buffer memory in

the unit of a data block of a constant data length;

the step of recording received second digital data in said buffer memory in correspondence with said data block; and

the step of recording said second digital data in a memory region on said disc where a part of said first digital data has been recorded in correspondence with said second digital data.